

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 October 2002 (03.10.2002)

PCT

(10) International Publication Number
WO 02/077799 A1

(51) International Patent Classification⁵: G06F 9/38, 9/30 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, IU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(21) International Application Number: PCT/EP01/03282

(22) International Filing Date: 22 March 2001 (22.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicants (*for all designated States except US*): INFINEON TECHNOLOGIES AG [DE/DE]; St.-Martin-Straße 53, 81669 München (DE). STMICROELECTRONIKS S.A. [FR/FR]; 850, rue Jean Monnet, F-38926 Croles Cedex (FR).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): SONNEKALB, Stefan [DE/DE]; Kreillerstraße 51, 81673 München (DE).

(74) Agents: JANNIG, Peter et al.; Jannig & Repkow, Klausenberg 20, 86199 Augsburg (DE).

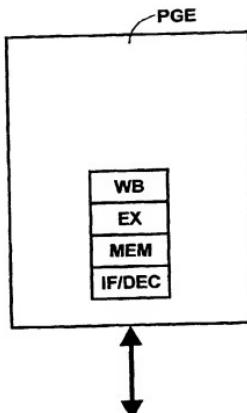
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROGRAM-CONTROLLED UNIT EMPLOYING A STOP INSTRUCTION



(57) Abstract: The invention describes a program-controlled unit having an instruction execution pipeline comprising a plurality of pipeline stages. The program-controlled unit described is distinguished in that it is able to execute instructions which instruct it to stop individual, a plurality of or all pipeline stages. This allows the stopping of the pipeline stages to be tested simply, quickly and comprehensively under all circumstances.

WO 02/077799 A1